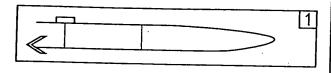
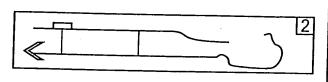
## PUTATIVE C-PEPTIDE CONTAINING IMPURITIES. ALL OF THE EXAMPLES SHOW "INSULIN C-PEPTIDE LIKE IMMUNOREACTIVITY"

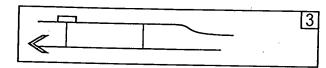


PREPROINSULIN WITH OR WITHOUT PRE-SEQUENCE. MODEL TEST COMPOUND: PURIFIED PPI

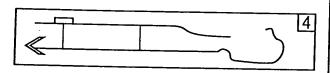
. .



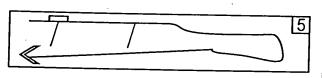
PREPROINSULIN WITH OR WITHOUT PRE-SEQUENCE, CLEAVED AT THE ACID LABILE DP SITE. MODEL TEST COMPOUND: PURIFIED PPI CLEAVED WITH ENDO ASP-N AT THE EDP SITE.



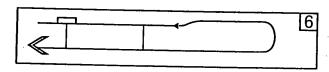
PREPROINSULIN WITH OR WITHOUT PRE-SEQUENCE, UNPROCESSED AT THE N-TERMINAL BORDER OF A-CHAIN.



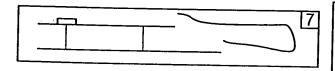
PREPROINSULIN WITH OR WITHOUT PRE-SEQUENCE, UNPROCESSED AT THE C-TERMINAL BORDER OF B-CHAIN. MODEL TEST COMPOUND: HIA2 PPI



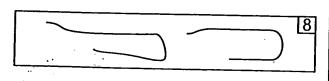
INCORRECTLY FOLDED OR UNFOLDED PREPROINSULIN WITH OR WITHOUT PRE-SEQUENCE.
MODEL COMPOUND:
PURIFIED PPI WITH REDUCED S-S
BONDS AND ALKYLATED CYSTEINES.



PREPROINSULIN OF HIA2 IT CAN BE USED AS A MODEL TEST COMPOUND FOR 4.



ISOLATED MONKEY C-PEPTIDE FROM HI OR MUTATED C-PEPTIDE FROM HIA2 IN THE PRESENCE OF CORRECTLY PROCESSED INSULIN.



ISOLATED C-PEPTIDES FROM HUMAN INSULIN.

MODEL TEST COMPOUNDS TO CHECK INFLUENCE FROM DEVIATIONS IN SEQUENCE OR AMINO ACID COMPOSITION.

FIG. 1A

## **EXPLANATIONS**

= A-CHAIN OF INSULIN

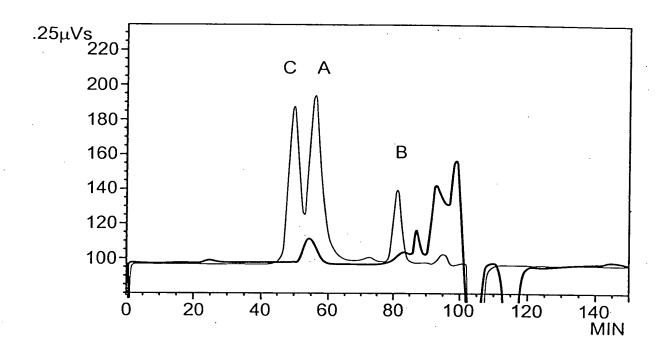
= B-CHAIN OF INSULIN

= C-PEPTIDE

= PRESEQUENCE OF RECOMBINANT INSULINS

= COVALENT BOND BETWEEN "SH" OF CYSTEINES

FIG. 1B



ADC1 A, SIGNAL FROM PC LOOP (5\SDPE\_008.D)
ADC1 A, SIGNAL FROM PC LOOP (5\SDPE\_031.D)

FIG. 2

ILLUSTRATION OF 6 DIFFERENT INSULIN C-PEPTIDE STANDARD CURVES AS OBTAINED IN THE BEAD ASSAY

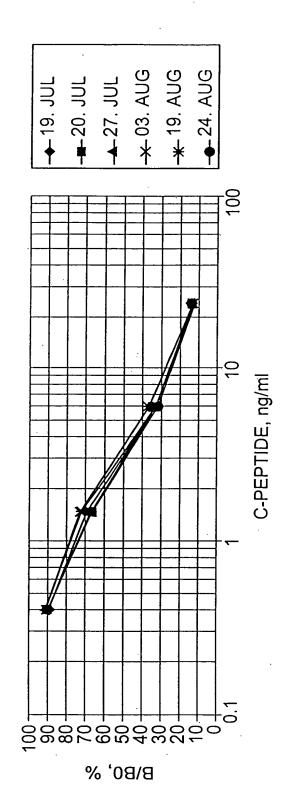
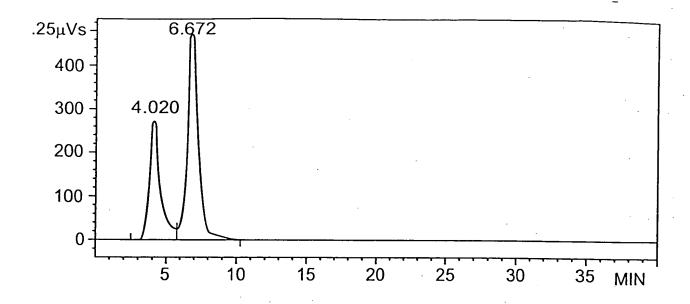


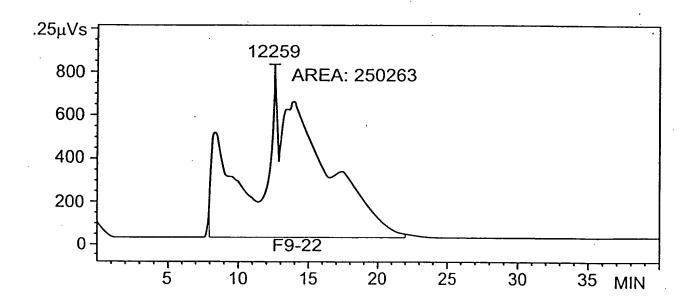
FIG. 3



. 4

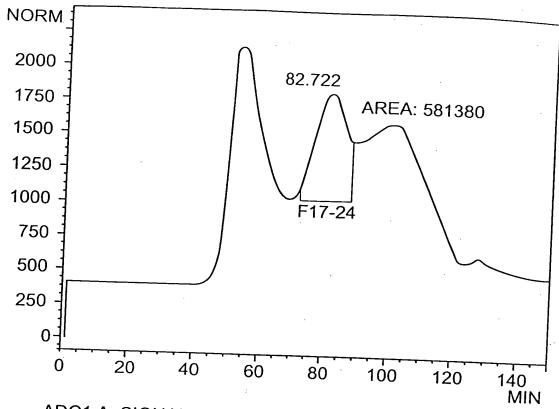
ADC1 A, SIGNAL FROM PC LOOP (4\AZL\_109.D)

FIG. 4A



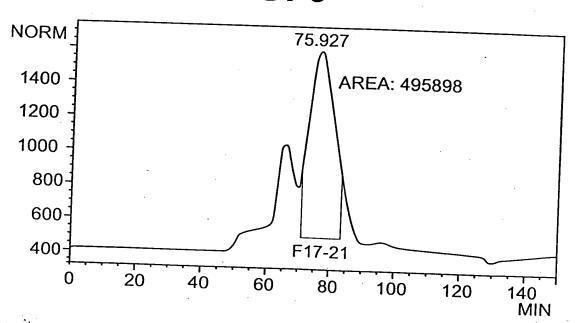
ADC1 A, SIGNAL FROM PC LOOP (4\AZL\_108.D)

FIG. 4B



ADC1 A, SIGNAL FROM PC LOOP (6\SD2\_652.D)

FIG. 5



ADC1 A, SIGNAL FROM PC LOOP (6\SD2\_656.D)

FIG. 6

## MARKER LINES

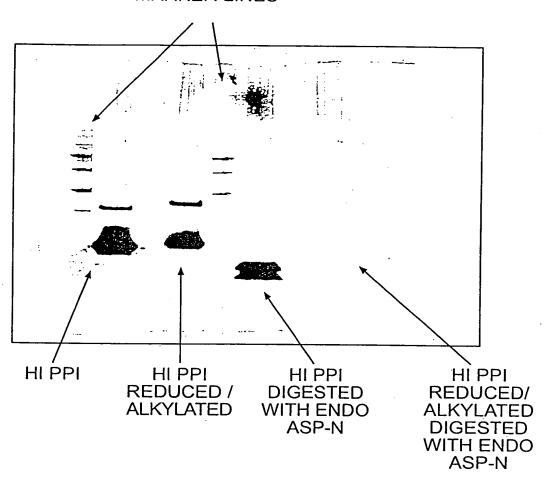


FIG. 7

ANALYSIS OF DIFFERENT CONTROL ANTIGENS USING THE COATED BEAD CHEMILUMINESCENCE ASSAY

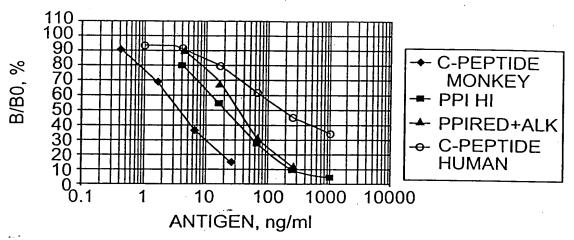


FIG. 8

ANALYSIS OF DIFFERENT CONTROL ANTIGENS USING THE COATED BEAD CHEMILUMINESCENCE ASSAY

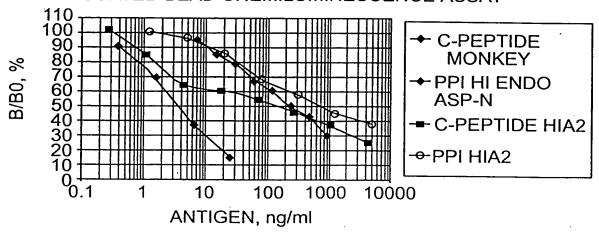


FIG. 9